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Integrating geographic information systems, spatial digital libraries and information spaces for

2003

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conducting humanitarian assistance and disaster relief operations in ...

V Kurnar, A Bugacov, M Coutinho... - Proceedings of the 7th ..., 1999 - portal.acm.org

... Their common element is the need to help a group develop and maintain their understanding ... In certain applications, the registration of incidents or events may play an important role in ... The sizes of the blue circles are proportional to the number of documents found referencing ...

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[POC] Visualisation of entity distribution in very large scale spatial and geographic information systems

J Komzák... - Milton Keynes, The Open University, 2001 - komzak.webz.cz

... Hard copy maps, aerial photographs, remotely sensed images, reports, survey documents usually serve as the ... it will be possible to work only with the intersection of relevant subtrees in ... according to long time observation of client behaviour and creation of groups - typical client ...

Cited by 4 - Related articles - View as HTML

IPDFI Knowledge Media Institute

J Komzak... - 2001 - Citeseer ... The spatial nature of data is important in geographic and spatial information systems. ... Next possible group of analysis is provided by expert systems or system for support of decision making. ... The application displays documents downloaded from different servers. ...

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GeoSearcher: Location based ranking of search engine results

C Watters... - Journal of the American Society for ..., 2003 - Wiley Online Library

... Geo-referenced Information Processing System) is a system that extracts geographical index terms from documents (Woodruff and ... for North American readers but we determined that this would not likely be relevant in a ... Finally, the third group had sites with errors in the URL. ...

Cited by 19 - Balated articles - Bt. Direct - All 12 versions.

[воок] GIS and public health

EK Cromley... - 2002 - books.google.com

... practical concerns, the authors cut straight through the jargon to emphasize relevant applications in ... 267 Incorporating Normative Models of Facility Location and Service Delivery into GIS 279 Spatial ... Census identifiers for tracts, block groups, and blocks are unique 90 onh in the ... Cited by 312 - Related articles - Library Search - All 4 versions.

Extracting spatial knowledge from the web

Y Morimoto, M Aono, ME Houle... - Applications and the ..., 2003 - ieeexplore.ieee.org

... wi in the j-th document di, and df i is the num- ber of documents in which the ... clustering method based on text data drawn from web pages should take into account the following ... As both considerations are equally important, these proportions should be accounted for separately. ...

Cited by 43 - Belated adicles - All 13 versions

Data analysis for a multimedia library

A Hauptmann, R Jin... - Text-and Speech-Triggered Information ..., 2003 - Springer

... Under the heading of "grouping", we would like to recognize the text flow on a ... Page formatting can be important, as newspapers may have multiple articles on one page ... the TREC evaluations, experiments have shown that information retrieval on documents recognized through ...

Related adictes - Bt. Direct - Att 4 vecsions

GIS and disease

EK Cromley - Annual Review of Public Health, 2003 - annualreviews.org

... science, social science, and geographic information science, conference proceedings, government documents from all ... with asthma in 1993 were compared to a random control group of children ... For most GIS applications, these spatial units are not relevant to the geographical ...

Cited by 64 - Related articles - St. Direct - Alt 3 versions

IPDFI Empowerment, marginalization and public participation GIS

W Craig, T Harris... - Report of a Specialist Meeting Held Under ..., 1999 - Citeseer

... Maine, it was proposed that the idea of PPGIS should be incorporated into the new ... As result, a core planning group and co-leaders was established and a proposal to ... All participants recognized that this initiative was important for understanding 'geographies of the information ...

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[PDF] Snow cover mapping with NOAA-AVHRR images in the scope of an environmental GIS project for the Russian Altai (South Siberia)

E Höppner... - Proc. of the ICA Comm. on Mountain ..., 2002 - Citeseer

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### Giuseppe Pozzi, Letizia Tanca and Luca Tosi Politecnico di Milano, Italy

F Schreiber, VDA AlbertoBeliussi. . - Web-enabled systems ..., 2003 - books.google.com ... access demands can be supported by the DEAFIN system towards a variety of user groups ... system, aptto manage and provide access to all the regional relevant information in ... to external DBMSs, • the system shouldbe ableto handle and generate XML documents, • the system ... Related articles - Ali 2 versions

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S CDC... - PUBLIC HEALTH, 2000 - Citeseer

... Data collected through NHANES are vitally important and have informed policy and research in many ... and county of residence; year of death; race (white, black, other); sex; age group at death ... is composed of over 450 individual Landsat 7 satellite scenes mosaicked into a single ... Related articles - View as HTML - All 14 versions

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### [PDF] Mapping the Future

GIS Developing Regional - 2000 - greatvalley.org

... 1999.) All of the issues identified by residents as the most important matters facing ... Land Systems Group, 395 Del Monte Center #150, Monterey, California 93940, 831-633-6445 or 831 ... GIS Advisory Board was organized to counsel the study process, to review documents, and to ... View as HTML - Alt 3 versions.

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ST Gershman - 1997 - DTIC Document

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F Wang - 2002 - eidr.wvu.edu

... 33 Figure 3.1 Three main forest management groups in the study area..... 35 ... Forest management must take into account the small scale (Sachs et al. 1998). More and ... relevant in all situations (USGS Biological Resources Division 1999). The species that ... Related articles - Misselas HTML - Library Search - Att 4 yeasions

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F Martin - 2000 - eidr.wvu.edu

... Billions of gallons of fresh water continually flow from the Kissimmee River and Lake Okeechobee into the Everglades. ... short period relative to geologic time frames. It is also important to note that the increased population, largely comprising ... These groups are ...

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# [BOOK] Getting to know ArcView GIS; the geographic information system (GIS) for everyone

Environmental Systems Research Institute (Redlands - 1999 - books.google.com

... Books from ESRI Press are available to resellers worldwide through Independent Publishers

Group (IPG ... Chapters Getting data into ArcView G/S 8-1 Understanding data sources 8-2 Adding ...

The systems do differ in a number of important ways: how they link geographic locations ...

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### [воок] Computational science and its applications-ICCSA 2003: proceedings

P L'Eouyer, CJK Tan, ML Gavrilova... - 2003 - books.google.com

... in Spatial Analysis within GIS A Variable Resolution Approach to Cluster Discovery in ... Computer-Aided Geometric Design Solving Geometric Constraints Invariant Modulo the Similarity Group .... ... Seed, DER Clark, R. Ocone, XY Yang Partitioning Polygons into Tree Monotone ... Related articles.

# ... one's understanding of SAR imagery and processing. It is a very useful contribution, however, to those more familiar with these increasingly important data and does...

K GmbH - 1994 - Wiley Online Library

... The third group of chapters, 13, 14, 15 and 18 may be described as ... it is important to define the nature of good results and the methods used to ... more esoterically, the transformation of Mackaness's rose diagrams describing a map's components into "thermometers" representing ... Balated articles

IPDFL from wvu.edu

# [PDF] Rural Public Transportation: Using Geographic Information Systems to Guide Service Planning 1808) from transpowding

TW Sanchez, N Bania ... - Transportation Northwest Regional ..., 2002 - transnow org

... Thomas W. Sanchez Center for Urban Studies, Transportation Research Group Portland State

University, Portland ... areas into the suburbs, essentially reversing the traditional public

transportation patterns. ... GIS is an important technology that is increasingly being used to support ...

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E Schwab - 2002 - fsmat at

... Furthermore, you would have to do that by hand, by fetching and navigating Web documents, copying the price ... At the Institute of Information Systems, Database and Artificial Intelligence Group on the Vi- enna university of ... Lixto translates relevant parts of Web pages into XML. ...

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Travel time studies with global positioning and geographic information systems: an integrated methodology

CA Quiroga... - Transportation Research Part C: Emerging ..., 1998 - Elsevier

... It documents the data collection, data reduction, and data reporting procedures, as well as ... For discussion purposes, these techniques can be **grouped into** two categories: roadside techniques and ... This is particularly important if there are interchanges or intersections along the ... Gied by 1.12 - Related acticles - Atl. 4 versions

# Search and retrieval system of transportation-related flexibly defined paths

PD Cappellini - US Patent App. 20,030/014,286, 2002 - treepatentsonline.com

... [0086] Transport Path Attributes—A **group** of attributes ... total, or partial part of the route that has been input as a planned itinerary by the service provider **into** the system. ... 0105] Generation (G)—An attribute used to describe the vectors, waypoints or waypoint attributes **relevant** to a ... Caching

#### The Nature of Geographical Data

M Monmonier - Bringing geographical information systems Into ..., 2000 - books.google.com ... In organizations, it often becomes embedded not only in **documents** or repositories but also in ... In addition to data availability, copyright, price, and data format are important issues to consider in ... The purpose of this **group** is to help users and suppliers to implement the new ... Isalated articles.

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# Experiences with the use of supply chain management software in education

A Campbell, J Goentzel... - Production and ..., 2000 - Wiley Online Library

... One class member from each **group** worked on the project during the next quarter to get the ... Appendices C and D). The data sets for the case studies are Microsoft Excel **documents** and do ... vehicle, and driver (if any) were involved in the most recent event and **relevant** volumes. ... Cated by 4 - Related attacks - Ed. Direct - All. 1.1. versions.

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D Osborne, . - 2003 - books.google.com

... In June 2000, a **group** of intelligence trainers and intelligence leaders from around the world ... in the present and the tactical crime analyst must be flexible in producing **relevant** crime analysis ... doors standing open for long periods of time, inviting burglars to walk **into** the structure ... Cited by 13 - Belated aniches - Library Search

# [воок] NOAA Coastal Change Analysis Program (C-CAP): guidance for regional implementation

JE Dobson... - 1995 - csc.noaa.gov

... believe we have made a significant step in addressing an important coastal issue ... conjunction with global positioning system systems, and geographic information system (GIS) technology to ... from a series of professional workshops and interagency working **group** meetings which ... Cited by 131 - Belated articles - View as HTML - Library Search - At 12 yearsons

#### [BOOK] Geographic information systems: socioeconomic applications

D Martin - 1996 - books.google.com

... Many of the concepts and principles introduced here are **relevant** to all **GIS** users, but the ... data at conventional geographic scales of measurement Means of linking items of attribute information into some spatial ... National Health Service (UK) National Joint Utilities **Group** (UK) xix ... Cited by SIZ - Selated attribute - Library, Search - All S. xersions.

# [воок] Analytic mapping and geographic databases

GD Garson... - 1992 - books.google.com

... The rest of the agency will be very happy to know that the **group** is involved in the new technology, but equally ... In particular, it is important in mapping that common borders be maintained so that "slivers" do not appear (small gaps or ... Features are organized **into** layers in a **GIS**. ...

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# [воок] Smart growth for Tennessee towns and counties: A process guide

MR English, JH Peretz... - 1999 - eerc.ra.utk.edu

... The growth plan must include, at a minimum, documents describing municipal corporate limits as well as urban growth boundaries ... In addition, however, others may or should play an important role. ... (5) The cost of the process may be covered by fees charged to member groups. ...

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# Real-time insurance policy underwriting and risk management

SC Kumar, DN Dymaes... - US Patent App. ..., 2003 - freepatentsonline.com

... takes considerable time for the GIS operator to provide a list of relevant existing policies ... data (eg, converting Tagged Image File Format (TIFF) to Joint Photographic Expert Group (JPEG) format ... Although not shown, other types of data may also be input into the enterprise spatial ...

### The State of Government Cartography in 1998

JL Morrison - Journal article by Joel L. Morrison; Cartography and ..., 1999 - questia.com ... Linux. Documents. The group has produced a RFC for integrating geographic support

into VRML as well as a proposal for introducing double-precision floating-point support to better represent geographic coordinates. Greg ...

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# The National Science Foundation National Center for Geographic Information and Analysis

FA RONALD - International Journal of Geographical Information ..., 1987 - Taylor & Francis ... technology and examines it from the standpoint offechology and society will identify important obstacles to ... Divisions are in tum grouped into Directorates, of which there are seven ... of the Center's activities were similar to those contained in the Dobson documents, accompanied by ... Related adicies

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M Caulfield - 2003 - comcast.net

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... These written documents, developed in partial collaboration with Robert Austin, served as the base for ... absorbed and changed into other forms of energy; processes involving energy are important in satellite ... acronym word formed from first (or other) letters of a grouping of words. ... Offed by 21 - Related articles - Library Search - All 4 yearsions.

#### Geographic information systems: suitability to a land use planning problem

RC Harmon - 1993 - scholarsarchive.library.oregonstate. ...

... con- tributed greatly to this area of early, manual GIS research and was important in introducing further work in the use of ... Peucker and Chris- man (1975) conducted some of the earliest research into the ... GIS, one of the first 'topologically complete' GIS. A ... Related articles - All 4 versions

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Water Resources Institute (US). Task Committee on the ... - 2003 - books google.com ... Decision Quality Objectives (rather than Data Quality Objectives) should be developed that are related to the specific circumstances of a site and take into consideration potential risks, exposure routes, and concerns. Monitoring parameter lists should be relevant to the ... Related acticles - Library Search

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... from the Unit for Human Resources Information and Planning in the HSRC's **Group** Human Resources ... The study highlighted the important contribution of **GIS**, not only as a very useful ... by the incorporation of data-mining techniques (such as neural networks) **into** spatial analyses ... Related actives

# Lam Walter Kraft, I'ma Traffic Engineer, I'm an ITS Engineer, I do planning, I do operations, I do manage-ment, I do integration, I want to see what is happening on the ...

Will Kraft - Remote sensing for transportation: products and ..., 2009 - books.google.com ... Government agencies are the largest potential custo- mer **group**. ... I'm going to organize my comments **into** three areas ... have been a lot of improvement and a lot of progress over the last year in the flow area, but beyond the tech- nical advancements, even more important are the ...

### Method, system, and program for an improved enterprise spatial system

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TA Von Kaenel, DN Dymaes...- US Patent App....., 2003 - freepatentsonline.com .... 201 to contain the logic to convert and, possibly, combine raw spatially referenced data into viewable data ... 0022] Yet another problem is that Geographic Information Systems (GIS) require data ... same application need to be run, each working with a different set or grouping of data ... Geographic

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Discovering associations in spatial data—an efficient medoid based approach

V Estivill-Castrol... - ... in Knowledge Discovery and Data Mining, 1998 - Springer ... 3. M. Ester, HP Kriegel, S. Sander, and X. Xu. A density-based algorithm for dis- covering clusters

in large spatial databases with noise. ... Mining spatial data via clustering. Technical Report #5/97,

FIT, QUT, Brisbane 4000, Australia, 1997. ... Location-allocation for small computers. ...

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[PDF] Trends in spatial data mining

S Shekhar, P Zhang, Y Huang... - Data mining. Next..., 2003 - spatial.cs.umn.edu

... as shown in Figure 3.2(c). Other conti- guity matrices can be designed to model neighborhood relationships based on distance ... studies of four important output patterns for spatial data mining:

predictive models, spatial outliers, spatial co-location rules, and spatial clustering. ...

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[PDF] The elusive concept of localization economies: towards a knowledge-based theory of spatial (RDF) from environmentandiplanning.com

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A Malmberg... - Environment and Planning ..., 2002 - environmentandplanning.com

... A knowledge-based approach to the theory of spatial clustering As we see it, a satisfactory theory of spatial clustering must be ... colocated but which are not available to a hypothetical single firm carrying out precisely the same activities, even at the same location, using the ...

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### Robust distance-based clustering with applications to spatial data mining

V Estivill-Castro... - Algorithmica, 2001 - Springer

... Since C and C differ on only one point, with appropriate structures for point **location**, O(n log k) steps are sufficient to find rep[s, C] for all s S (rep[s, C] is either unchanged or the new ... Robust Distance-Based Clustering with Applications to Spatial Data Mining 223 ...

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#### [PDF] Spatial clustering for data mining with genetic algorithms

V Estivili-Castro, AT Murray - ... of the International ICSC Symposium on ..., 1997 - Citeseer ... Our results open the possibility for even more competitive genetic search for medoid **based clustering**. 7 Acknowledgments ... Page 11. **Spatial Clustering** for **Data** Mining with a GA ... 1] G. Bianchi and R. Church. A non-binary encoded genetic algorithm for a facility **location** problem. ... Clied by 68 - Related acticles - View as HIMML - All 8 yearsions

Autoclust+: Automatic clustering of point-data sets in the presence of obstacles

V Estivili-Castro... - Temporal, Spatial, and Spatio-Temporal Data ..., 2001 - Springer
... includes the number of clusters that reside in P (note that some clustering methods are ... tion rather than providing it), extent, scatter and size of each cluster, location in spatial ... Type II information includes causal factors and potential explanations based on data in other layers ...

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# Data clustering: a review

AK Jain, MN Murty... - ACM computing surveys (CSUR), 1999 - portal.acm.org
... The field of **spatial** analysis of point pat- terns [Ripley 1988] is also related to cluster ... A review of image segmentation by **clustering** was reported in Jain and Flynn [1996 ... Com- parisons of various combinatorial opti- mization schemes, **based** on experi- ments, have been reported ...

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# DBRS: A density-based spatial clustering method with random sampling

X Wang... - Advances in Knowledge Discovery and Data ..., 2003 - Springer ... Region growing is heavily based on not only the location of pixels but also the non-spatial attributes or 'a priori' knowledge [9 ... (We refer to each spatial data object in a dataset as a point.) In this paper, we introduce the problem of a-approximate density based clustering....

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#### BIRCH: an efficient data clustering method for very large databases

T Zhang, B Ramakrishnan... - ACM SIGMOD Record, 1996 - portal.acm.org

... Scj it is still unable to scale well with large N. Clustering has been recognized as a useful spatial data mining method recently. [NH94] presents ('L,4BAN,\$' that is based on ranclornized search, and proposes that (\_'LARAN,\$ outperforms traditional clustering al- ...

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#### GeoMiner: a system prototype for spatial data mining

J Han, K Koperski... - ACM SIGMOD Record, 1997 - portal acm.org

... relational databases contain **spatial** information as well, such as the residence of a customer or the **location** of a ... Concept hierarchies can be created by users or domain experts, but also generated automatically **based** on value distribution or some **clustering** algorithms. ...

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# Fast approximations for sums of distances, clustering and the Fermat-Weber problem\* 1

P Bose, A Maheshwari... - Computational Geometry, 2003 - Elsevier

... 7. Estivill-Castro and Houle, Robust distance-based clustering with applications to spatial data mining. Algorithmica 30 2 (2001), pp. 216–242. Full Text via CrossRef | View Record in Scopus | Cited By in Scopus (13). 8. RL Francis Facility Layout and Location: An Analytical ...

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# Constraint-based clustering in large databases

A Tung, J Han, L Lakshmanan... - Database Theory---ICDT 2001, 2001 - Springer

... Clustering methods can be categorized into partitioning methods [KR90, NH94], hierarchical methods [KR90 ... methods [EKSX96], grid-based methods [WYM97,AGGR98], and model-based methods [HaKa00]. ... somewhat similar to the CC problem is the facility location pro- blem ... Cited by 124 - Selected articles - St. Direct - All 12 versions

### Mining frequent neighboring class sets in spatial databases

Y Morimoto - ... conference on Knowledge discovery and data mining, 2001 - portal.acm.org ... for finding important spatial pattern called frequent neighboring class sets from spatial databases. ... sets are not just clusters that can be found by conventional clustering algo- rithms ... class sets can be utilized for many applications such as location-based services, development ...

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# Streaming-data algorithms for high-quality clustering

L. O'Callaghan, N. Mishra, A. Meyerson... - Data Engineering, ..., 2002 - ieeexplore.ieee.org ... CG algorithm given in Sec- tion 3.2.1, except that CG solves the facility location variant which is more desirable since in practice one does not know the exact number of clusters k (and facility location allows as ... Other types of clustering include density-based methods, eg ...

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Spatial data mining: database primitives, algorithms and efficient DBMS support

M Ester, A Frommelt, HP Kriegel... - Data Mining and Knowledge ..., 2000 - Springer ... 195 Figure 1. Regions of pollution around a planned industrial plant (Bill, 1991). Figure 1 depicts a map used in the assessment of a possible location for a new industrial plant. ... 203 Figure 6. Illustration of a single scan clustering, using a distance based neighborhood. ...

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An updated bibliography of temporal, spatial, and spatio-temporal data mining research

Lee, I. (2000). AUTOCLUST+: Automatic Clustering of Point-Data Sets in the Presence of Obstacles. ... Discovering associations in spatial data-an efficient mediod based approach. ... Cited by 95 - Related articles - All 7 versions.

Second-order analysis of spatial clustering for inhomogeneous populations

PJ Diggle... - Biometrics, 1991 - JSTOR

... 100 11 52 69 98 97 100 200 12 57 82 98 100 100 Our power study is based on 100 replicate simulations of events in A, the unit square. ... The location of each event is taken as the centroid of the post code of home address. ... suggests mild evidence of spatial clustering. ...

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Model-based clustering, discriminant analysis, and density estimation

C Fraley... - Journal of the American Statistical Association, 2002 - ASA ... We give examples from medical diagnosis, minefi eld detection, cluster recovery from noisy data, and **spatial** density estimation. Finally, we mention limitations of the methodology and discuss recent developments in model-based clustering for non-Gaussian data, high ...

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T Zhang, R Ramakrishnan... - Data Mining and Knowledge ..., 1997 - Springer ... 2.2. Distance-Based Most data clustering algorithms in Statistics are distance-based approaches. ... Hence none of them can scale up linearly with stable quality. Data clustering has been recognized as a useful spatial data mining method recently. ...

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[PDF] Spatial disease clusters: detection and inference

M Kulldorff... - Statistics in medicine, 1995 - satscan.us

... In this paper, we present a method that detects the location of possible disease clusters in a population with ... Both have been applied to disease clustering. One approach uses a test statistic based on measuring distances between the disease cases while the other is based on ...

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[воок] Geographic data mining and knowledge discovery HJ Miller.. - 2001 - books.google.com

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MS Chen, J. Han... - ... data Engineering, IEEE Transactions ..., 1996 - ieeexplore.ieee.org ... databases, transaction databases, object- oriented databases, deductive databases, spatial databases, temporal ... charac- teristic rules, classification rules, discriminant rules, clustering, evolution, and ... un- derlying data mining approach into generalization- based mining, pattern ... Cited Ly. 1632 - Related articles - Ubrary Search - BL Direct - All 72 versions

Using a neural network and spatial clustering to predict the location of active sites in enzymes

A Gutteridge, GJ Bartlett... - Journal of molecular biology, 2003 - Elsevier

... Here, a neural network is trained to identify the catalytic residues found in enzymes, based on an ... spatial clustering of the highly scoring residues are then used to predict the location of the ... Spatial clustering of the network results provides a reliable way of finding likely active sites ...

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IPDFI AMOEBA: Hierarchical clustering based on spatial proximity using Delaunay diagram

V Estivill-Castro... - ... the 9th International Symposium on Spatial Data ..., 2000 - Citeseer ... of spatial entities is that they are correlated with each other in the sense of time, location, theme and ... Wang et al., 1997) and STING+ (Wang et al., 1999) also use a statistical information based on a ... These compact values can be used for clustering to draw a good approximation. ...

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### [PDF] X-means: Extending K-means with E cient Estimation of the Number of Clusters

D Pelleg... - ICML-2000, 2000 - Citeseer

... We rst describe the naiveK-means algorithm for pro-ducing a **clustering** of the points in the ... In case a centroid **location** changes, a new element has to be inserted and it is ... It uses statistically-**based** criteria to make local deci-sions that maximize the model's posterior probabili ... Cited by 203 - Balated articles - View as ATML - All 23 versions.

(PDF) from osuledu

### Partition based spatial-merge join

JM Patel... - ACM SIGMOD Record, 1996 - portal.acm.org

... The study also investigates the effect of **clustering** the join inputs. ... In [Ore86, OM88], Orenstein proposes an approach **based** on approximate geometry, wherein the universe of the ... Each pixel, which is described by its **spatial location**, is transformed into a 1-dimensional domain ...

Cited by 313 - Related articles - St. Direct - All 18 versions

(PDF) from psu.adu

# [PDF] Integrated analysis of **spatial data** from multiple sources; using evidential reasoning and artificial neural network techniques for geological mapping

P Gong - Photogrammetric Engineering and Remote Sensing, 1996 - sirss.on

... Many clustering algorithms and the MLC can be applied only to data at ratio and interval measurement scales. ... Classification Based on Evidential Theory Let a vector  $X = (x_1, x_2, x_3)$  denote a set of observations or measurements made at a particular location. ...

Offield by 79 - Related articles - Et. Direct - All 12 versions.

(PDF), from sirsa.cn

#### Exploratory spatial data analysis techniques for examining urban crime

AT Murray, I McGulfog, JS Western... - British Journal of Criminology, 2001 - CCJS

... Information on the 99 police stations was provided by Queensland Police. Information on the **location** of the 82 fire stations was provided by Queensland Fire and Rescue Authority. ... FIG. 4 Property crimes and **spatial** features in Brisbane Page 11. Optimization-**based Clustering** ...

Cited by 54 - Belated adictes, - Bit Direct - All 12 versions

(PDF) from cuny.edu

# Distributed data clustering can be efficient and exact

G Forman... - ACM SIGKDD explorations newsletter, 2000 - portal.acm.org

... remote portions of the dataset over the poor connection to a central **location** for (parallel ... "K-Harmonic Means: A **Spatial Clustering** Algorithm with ... Algorithms using Sufficient Statistics for Efficient Parallel Speed-up: Demonstrated for Center-**Based Data Clustering** Algorithms," 4th ... Clied by 83 - Related actions - All 28 weedons

-12921.from.hp.com

# IPDFI Clustering algorithms for spatial databases: A Survey

E Kolatch - PDF is available on the Web, 2001 - Citeseer

... In addition, spatial location, and implicit information about the location of an object, may be exactly the information that can be extracted through spatial data mining. [Fay96] ... 4.3 DBCLASD DBCLASD (Distribution Based Clustering of Large Spatial Databases) [XEKS98], is ...

Cded by 55 - Related articles - View as HTML - All 7 versions.

1PDFL from psu.edu

# Detecting graph-based spatial outliers: algorithms and applications (a summary of results)

S Shekhar, CT Lu... - ... on Knowledge discovery and data ..., 2001 - portal acm.org

... cost models for outlier detection queries, and compare un- derlying **data** storage and **clustering** methods that ... We are interested in discovering the **location** of stations whose measurements are inconsistent with those of their graph-**based spatial** neighbors and the ...

Clied.by. 104 - Belated.acticles - All. 22 versions

- LEDEL from pouledu

### Hierarchical model-based clustering for large datasets

C Posse - Journal of Computational and Graphical Statistics, 2001 - ASA

... Section 2 reviews the general framework of model- based clustering. ... Section 4 uses the MST-HMCLUST-EM approach to analyze simulated data and two large, real datasets ... In the latter case, local smoothers are combined with this algorithm to integrate the spatial information in ... Cited by 50 - Balated acticles - St. Direct - All 10 varsions.

[PDF] from washington.edu

# Knowledge-based image retrieval with spatial and temporal constructs

WW Chu, CC Hsu, AF Cardenas... - Knowledge and Data ..., 1998 - leeexplore.leee.org

... These computed features will be classified automatically with clustering algorithms into Type Abstraction Hierar- chies ... of the visual entities in the query are extracted and compared based on the ... descriptors, such as size and roundness for the shape cate- gory, location for the ... Cated by 145 - Selated articles - St. Direct - All 11 versions

Local indicators of spatial association—LISA

L Anselin - Geographical analysis, 1995 - Wiley Online Library

... is a simple sum over the subscript i, a local Gamma index for a **location** i may ... the **data** sources, see Anselin and O'Loughlin (1992)I. The sug- gestion of **spatial clustering** of similar ... 0.002).6 These statistics are computed for a row-standardized **spatial** weights matrix **based** on first ...

Cited by 2019 - Related articles - At 10 versions

[HIML] from mendeley.com

# Spatial clustering for inhomogeneous populations

J Cuzick... - Journal of the Royal Statistical Society. Series B ( ..., 1990 - JSTOR

... the moment, from all individuals at risk in 9 select at random a set of n1 'controls' and denote

their Iocation by (yl ... 1990] SPATIAL CLUSTERING ... General Rank-based Procedures The previous procedures are all based on the sequence of zeros and ones determined from the case ... Oited by 304 - Balated articles - Att 2 yeasions

#### Improved ant-based clustering and sorting in a document retrieval interface

J Handl... - Parallel Problem Solving from Nature-PPSN VII, 2002 - Springer

... the query results by browsing the documents, which are accessed through a mouse click on their map Iocation. ... with similar contents should be in close proximity, while differences in subject should be reflected by spatial distance. ... Improved Ant-Based Clustering and Sorting 915 ...

Cated by 105 - Related articles - Bt. Direct - All 5 versions

### Mean shift based clustering in high dimensions: A texture classification example

B Georgescu, I Shimshoni... - Computer Vision, 2003. ..., 2003 - ieeexplore.ieee.org

... search in high dimensions for general datasets [10, 11] and for clustering data [9, 14]. We use the approximate nearest neighbor algorithm based on locality-sensitive hashing (LSH) [7] and ... mean shift iterations (5) require a neighborhood query around the current location y. The ... Cited by 225 - Belated articles - At 32 versions

IPDEL from pauledu

IPDFI from dbkaroup.ora

### CHAPTER EIGHT The Moran scatterplot as an ESDA tool to assess local instability in spatial association

L Anselin - Spatial analytical perspectives on GIS, 1996 - books.google.com

... lower left quadrants represent positive spatial association, in the sense that a location is surrounded ... The suggestion of spatial clustering that follows from a visual inspection of this map is ... This statistic is computed for a spatial weights matrix based on distance contiguity, using ... Cited by 493 - Related articles - Library Search - All 3 versions.

#### Spatial econometrics

L Anselin - A companion to theoretical econometrics, 1988 - Wiley Online Library

... Typically, they are based on the geographic arrange- ment of the observations, or contiguity. ... This is a full matrix, which implies that shocks at any location affect all other locations ... has a certain intuition, in the sense that it incorporates an explicit notion of spatial clustering as a ... Cited by 5171 - Related articles - Library Search - Atl 31 versions

IPORLitom pauledu

# Peer-to-peer spatial queries in sensor networks

M Demirbas... - 2003 - computer.org

... Besides the location-based queries, the proposed framework can be utilized for other multi-dimensional queries over ... program that con-structs a hierarchical partitioning of a sensor network based on the ... to [n, N] (where N > 2\*n) tolerance factor in our clustering program, LOCI ... Offed by 104 - Related articles, - All 22 versions.

(PDF) from bsuledu

# Plant size and clustering of manufacturing activity

SH Sweeney... - Geographical Analysis, 1998 - Wiley Online Library

... set of studies by regional scientists of industrial complexes in the 1970s and a point pattern analysis of manufacturing location patterns in ... Given data with a suitably detailed spatial resolution, the most powerful statis- tical methods for examining clustering are based on the ...

Cited by 49 - Related articles - All 2 versions

# Fine-scale mapping of disease genes with multiple mutations via spatial clustering techniques (RETML) from nilagon

J Molitor, P Marjoram... - The American Journal of Human ..., 2003 - Elsevier

... Furthermore, our clustering approach has the potential to allow us to detect the presence of multiple ... The metric is based upon the assertion that the difference was due to a mutation at ... Another modification would be to define a series of probabilities at each marker location p 1 ...

Oited by 85 - Related articles - Bt. Direct - Alt 9 versions.

### Spatial data mining: A database approach

M Ester, HP Kriegel... - Advances in spatial databases, 1997 - Springer

... extension. The explicit location and extension of objects define implicit relations of spatial neighborhood. ... objects. Step 4 is based on the neigh- borhood graphs for the special neighborhood relations, eg specialgraph . ... 4.2 Spatial Clustering Clustering ...

Cited by 223 - Related articles - Bi, Direct - All 24 versions

IPDFI from psuledu

# An optimal graph theoretic approach to data clustering: Theory and its application to image <u>seamentation</u>

Z.Wu... - IEEE transactions on pattern analysis and machine ..., 1993 - computer.org

... computed feature vectors together. Often little or no spatial information about the image is used. Here a new method for image segmentation is developed based on our clustering algorithm. This method effectively searches ...

Oited by 563 - Related articles - Bt. Cirect - Alt 22 versions

# [PDF] Distributed clustering and local regression for knowledge discovery in multiple spatial databases

A Lazarevic, D Pokrajac... - Proceedings of 8th European ..., 2000 - Citeseer

... The proposed method is shown to be computationally efficient and fairly accurate when compared to an approach where all the data are available at a central location. ... 5. Sander J., Ester M., Kriegel

H.-P., Xu X.: "Density-Based Clustering in Spatial Databases: The Algorithm ...

Clied by 31 - Related adicles - View as HTML - At 13 versions

[PDF] from soledu

(PDF) from psu.edu

#### [PDF] Algorithms and applications for spatial data mining

M Ester, HP Kriegel... - Geographic Data Mining and Knowledge ..., 2001 - Citeseer ... traffic control or environmental studies. A spatial database contains objects which are characterized by a spatial location and/or exten- ... We can support clustering algorithms by our database primitives if the clustering algorithm is based on ...

(PDE), from psu.edu

Offed by 46 - Related articles - View as HTML - All 13 versions

# The **spatial** patterning of county homicide rates: An application of exploratory **spatial data** analysis

SF Messner, L. Anselin, RD Baller... - Journal of Quantitative ..., 1999 - Springer

... research has demonstrated convinc- ingly that knowledge about the **location** of criminal ... a nonrandom geographic distribution.7 The present paper examines **spatial clustering** of homicide ... Our analyses are **based** on the newly developed methodology of exploratory **spatial data** ...

Glied.by.138 - Balated.adioles - Bil. Direct - Ali.10 yersions.

# грогі A new method to measure spatial association for ecological count data

JN Perry... - Ecoscience, 2002 - rothamsted.bbsrc.ac.uk

... The new measure is **based** on a comparison of the **spatial** SADIE **clustering** index of the two sets ... coefficient between the **clustering** indices of the two sets. The randomization method allows ... their co-**location** in particular subareas of each plot. ...

Cited by 197 - Related articles - View as HTML - BL Direct - All 4 versions

# [PDF] Spatial data mining: progress and challenges survey paper

K Koperski, J Adhikary....... Workshop on Research Issues on Data ..., 1996 - Citeseer ... be described using two diff erent properties, geometric and topological.For example, geometric properties can be spatial location, area, perimeter ... As for the efficiency concern, a new algorithm, called CL ARANS ( Clustering large Applications based uponRANdom- ized ...

Cited by 166 - Related adicies - View as HTML - At 13 versions

# [CITATION] Exploratory spatial data analysis and geographic information systems

L. Anselin - New tools for spat(a) analysis, 1994 - Luxembourg: Eurostat Cited by 76 - Related articles - All 2 versions

# [PDF] Discovery of general knowledge in large spatial databases

W.Lu, J. Han, B.C. Ooi - Proc. Far East Workshop on Geographic ..., 1993 - Citeseer ... in raster data is represented by <(x, y), intensity>, where (x, y) is the spatial location and intensity the nonspatial attribute value. ... Different from relational data clustering, which is usually based on the concept hierarchy of each single attribute, spatial data clustering is two ... Clied by 124 - Related articles - View as XXIVII. - All 18 yearsions.

Color image segmentation using density-based clustering

Q Ye, W Gao... - icme, 2003 - computer.org

... Considering that an image can be regarded as a dataset in which each pixel has a **spatial location** and a color value, color image ... To discover the **spatial** connectivity of the pixels, density-**based clustering** is employed, which is an effective **clustering** method used in ...

Oxed by 43 - Related articles - St. Direct - All 11 versions

# Local maximum filtering for the extraction of tree locations and basal area from high **spatial** resolution imagery

M Wulder, KO Niemann... - Remote Sensing of ..., 2000 - Elsevier

... The ability to directly estimate the **location** of trees may improve estimates of stand density, volume, basal area, and canopy closure compared to estimates **based** on lower ... template matching (Pollock, 1999), morphology (Barbezat and Jacot, 1999), and **clustering** (Culvenor et al ...

Cited by 143 - Balated articles - Bt. Direct - Alt.Z. varsions.

# Spatial data management on a very large cadastral database

PJM Van Oosterom, CHJ Lemmen - Computers, Environment and Urban ..., 2001 - Elsevier ... highlights some innovative developments during the design of this database, eg the **Spatial Location** Code for ... unique object identifiers, integration of geometric and thematic attributes in one table, **spatial clustering**, **spatial** indexing, SQL **based** product development ... Catad by 4.1 - Helated articles - Et. Direct - All Z. versions

How many clusters? Which clustering method? Answers via model-based cluster analysis

C Fraley... - The computer journal, 1998 - Br Computer Soc

... An alternative is described in this paper. 2.2. Probability models for cluster analysis In model-based clustering, it is assumed that the data are generated by a mixture of underlying probability distributions in which each component represents a different group or cluster. ...

Cited by 988 - Related actions - St. Dited: - Att.75 versions.

SPRING: Integrating remote sensing and GIS by object-oriented data modelling

G Cărnara, RCM Souza, UM Freitas .. - Computers & graphics, 1996 - Elsevier

... geocoding can be made by means of ground control point **location**, and images ... SPRING uses a segmentation algorithm which is **based** on regiongrowing methods [8 ... the segmentation is performed, various region classifiers can be executed: **clustering**, maximumlikelihood and ...

Otted by 501 - Balated articles - BL Direct - All 6 versions

IPDFI from wiscledu

(PDF) from bbsrc.ac.uk

[PDE] from psu.edu

(PDF), from psuledu

iPDFi from admo.nl

(PDF) from psu.edu

spops from osuledu

A unified approach to detecting spatial outliers

S Shekhar, CT Lu... - GeoInformatica, 2003 - Springer

... outlier-degree of an object is determined by taking into account the clustering structure in ... as shown

in figure 1(b). Spatial attributes are used to characterize location, neighborhood, and ... Graphical tests are based on the visualization of spatial data which highlights spatial outliers ...

Cited by 75 - Related acticles - Bt. Diced - Alt 10 yearsions

A test for the coincident economic and spatial clustering of business enterprises

EJ Feser .. - Journal of Geographical Systems, 2000 - Springer

... as an in uence on industrial concentration from the in uence of general location advantages related to ... paper, we outline a method for accomplishing this that joins input-output based analysis of economic clustering with statis-tical methods for investigating spatial clustering....

Oited by 55 - Related articles - Bt. Direct - Alt.6 varsions.

Soil-landscape modelling using fuzzy c-means clustering of attribute data derived from a Digital Elevation Model (DEM)

S De Bruin... - Geoderma, 1998 - Elsevier

... 2. Location of the sample points in UTM projection ... Since all these measures are based on information obtained from within the clustering process itself, they are so-called ... Conversely, external criterion analysis is based on variables not used in the cluster analysis (Milligan, 1996 ... Cited by 79 - Related anticles - All 5 versions

Extracting spatial knowledge from the web

Y Morimoto, M Aono, ME Houle ... Applications and the ..., 2003 - leeexplore leee.org

... The clustering method was applied to uniform random sam- ples drawn from S, of size |S| 2i ... titles

of 70 nearest web pages from the query element at which the clus- ter is based. ... We associate

the keywords with web pages that contain location information to create a geospatial ...

Cited by 43 - Related articles - Ait 13 versions

[PDF] Forecasting rural land-use change: a comparison of regression-and spatial transition-based 18981 from coloutate adu models

DM Theobald... - Geographical and Environmental ..., 1998 - nrel.colostate.edu

... Actions such as clustering alter the footprint or location of development while maintaining or even ...

Planning actions that modify the location of development can also modify the PD[t + 1 ... In the regression-based model, the spatial linear regression results in a map of probability of ...

Clied by 65 - Betated articles - St. Direct - At 2 versions

Methods, apparatus and data structures for providing a user interface, which exploits spatial

memory, to objects

M Czerwinski, ST Dumais, SE Dziadosz... - US Patent ..., 2001 - Google Patents

... Intelligent help may be provided to the user, as visual indicators, based on proximity clustering

or based on matching ... 00 1— CO CD co co CM CO o CO 00 o co CD O CO "PUSHED" FLAG

"MOVE" FLAG "SELECT" FLAG Lu > <2 "ACTI FLA PRE-PUSH LOCATION NO LOCATI ...

Gited by 65 - Belated adictes - All 2 versions

Exploratory spatial data analysis of the distribution of regional per capita GDP in Europe, 1980— 1989; from u-bourgoone, fr 1995

J Gallo.. - Papers in regional science, 2003 - Wiley Online Library

... are located in the European Union and the way this pattern of location has changed ... it cannot discriminate between a spatial clustering of high values and a spatial clustering of low ... Inference

is based on the normal asymptotic approximation as suggested by Ord and Getis (1995 ...

Oited by 251 - Belated articles - Et. Cirect - All 18 versions

Second-order analysis of space-time clustering

PJ Diggle, AG Chetwynd... - Statistical methods in ..., 1995 - smm.sagepub.com

... For example, the location of a case might be taken as the principal residence of the ... Our analysis

is based on the second-order properties of a general stationary, spatial-temporal ... scales, whether

for estimation purposes or to construct an omnibus test of space-time clustering. ...

Cited by 118 - Related acticles - Library Search - All.5 versions

Opening the black box: interactive hierarchical clustering for multivariate spatial patterns

D Guo, D Peuquet... - Proceedings of the 10th ACM ..., 2002 - portal acm.org

... The input is a set of 2-D points  $V = \{v1, v2, ..., vn\}$ , where  $vi = \langle x, y \rangle$  is a **location** in the ... 7]

Estivill-Castro, V. and Lee, I., Amoeba: Hierarchical Clustering Based On Spatial Proximity Using

Delaunaty Diagram., 9th International Symposium on Spatial Data Handling, Beijing ...

Clied by 28 - Belated articles - Ali 9 versions

Path based pairwise data clustering with application to texture segmentation

B Fischer, T Zöller... - ... Methods in Computer Vision and Pattern ..., 2001 - Springer

... the resulting twelve dimensional vector of modulus values I(x) for each image location x comprises ...

Although I(x) contains information about **spatial** relations of pixels in the neighborhood of x, it ...

5. Results of the novel path based clustering criterion on three toy data sets: a) arcs b ...

Cased by 46 - Related articles - Bt. Direct - All 17 versions

Algorithm for data clustering in pattern recognition problems based on quantum mechanics

D Horn... - Physical Review Letters, 2001 - APS

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TPOFT from psu.edu

(PDF) from psu.edu

IPDFI from tau.ac.ii

http://scholar.google.com/scholar?hl=en&q=location+based+clustering+spatial+data+&btnG=Search&as sdt=0%2C47&as ylo=&as yhi=2003&as vis=0[8/19/2011 5:52:52 PM]

... that they lie at high values (of order E). Classifying data points to clusters according to their topographic location on the 3 ... raw data in four dimensions, leading to misclassifications of the order of 15 instances, similar to the clustering quality of [4]. Distance-based QC formulation ... Cased by 68 - Related articles - Bit. Direct - All 15 versions

# The analysis of spatial association by use of distance statistics

A Getis... - Geographical analysis, 1992 - Wiley Online Library

... xj values in the vicinity of point i differ systematically from the mean is there the opportunity to identify significant **spatial** concentration of ... The statistic is general in the sense that it is **based** on all pairs of values (xi, xi) such that i and j are ... No particular **location** i is fixed in this case. ... Cited by 583 - Related actions - All 3 yearsons

#### [PDF] Integrating GIS and spatial data analysis; problems and possibilities^

Ubeldspulmostledu

M Goodchild - Environment, 1987 - geog.ucsb.edu

... In a **spatial** database errors arise in measuring both **location** and attribute properties ... a 'dragging windows' utility for exploratory analysis, particularly in large object-**based spatial data** sets (Haslett ... with others at Lancaster University, on the detection of **spatial clustering** in cancer ... Cited by 24% - Balated articles - Bit Direct - Alt 2 versions.

# IPDFI The world in your pocket-towards a mobile cartography

IPDFI from psuledu

T Reichenbacher - Proceedings of the 20th International Cartographic ..., 2001 - Citeseer ... are many different techniques: Bayesian (probabilistic), logic based, ML techniques, clustering, stereotype-based ... For a start the categorisation could be based on the user's information requests or ... context of this location, checking for events happening at this location and finding ... Cited by 54 - Related articles. - View as 1970th. - All 8 versions

# The **spatial clustering** of science and capital: Accounting for biotech firm-venture capital relationships

[PDF] from buledu

WW Powell, KW Koput, Jt Bowie... - Regional Studies, 2002 - Taylor & Francis ... Page 3. The **Spatial Clustering** of Science and Capital 293 ... is a major research centre, the Center for Disease Control, a technology-**based** university, Georgia Tech, graphic concentration of the production **location**, why does the propensity for innovative activity to cluster ... Cited by 284 - Related articles - Et. Litect - All 18 varsions.

#### Density-connected sets and their application for trend detection in spatial databases

(PDF) from psuledu

# [PDF] Inferring urban land use from satellite sensor images using kernel-based spatial reclassification

(PDF) from aspre.org

MJ Barnsley ... - Photogrammetric Engineering and Remote ..., 1996 - asprs.org ... classes in a somewhat ar- bitrary and unpredictable manner, depending on the location of the ... by Wharton (1982a; 1982b) provides an early ex- ample of kernel-based spatial re-classification ... of the kernel is de- rived using an unsupervised, non-parametric clustering pro- cedure ... Cited by 132 - Helated articles - Max.as. HTML - BL Direct - All 8 versions

#### IPDFI Algorithms for mining distance-based outliers in large datasets

- fPDFL from psuladu

EM Knorr... - ... of the International Conference on Very Large Data ..., 1998 - Citeseer ... it is the exceptional cases|exceptional perhaps in monetary amount, type of purchase, timeframe, location, or some ... indirectly through the notion of clusters, and they are developed only to optimize clustering, but not ... 1.2 Distance-Based Outliers and Contribu- tions of this Paper ... Cited by 597 - Selected acticles - View as in TABL - BL Direct - All 12 years on the contributions of the

# Geonotes: Social and navigational aspects of location-based information systems

TPDFI from psuledu

F Espinoza, P Persson, A Sandin... - Ubicomp 2001: ..., 2001 - Springer ... we allow the user to regulate the tradeoff between curiosity about the spatial annotations and ... who bought the same books that you bought, also bought this one! Clustering users into ... In conclusion, our proposal for a location-based information system is social in two respects. ... Clied by 251 - Seleted articles - St. Direct - All 27 versions.

# Nonparametric maximum likelihood estimation of features in **spatial** point processes using Voronoi (RDELfrom psuladu tessellation

D Allard... - Journal of the American Statistical Association, 1997 - JSTOR

... is derived using a natural partition of the space defined by the data themselves: the ... The methodology is tested on simulations and compared to a model-based clustering technique ... INTRODUCTION The problem of contouring clusters of points belonging to a spatial point process ... Cated Liv. 65 - Related articles. - St. Direct - All 22 persons

### Fuzzy image clustering incorporating spatial continuity

AWC Liew, SH Leung... - Vision, Image and Signal ..., 2000 - ieeexplore.ieee.org ... For pixel at **location** (I; s), 8(r.,T),(,-I,sI) gives the Euclidean distance between feature vectors x ... We next perform colour-based image segmentation on some real colour images using our algorithm. ... The clustering is then done in the CIELAB space using the L, a and b colour compo ...

IPDF1 from griffith.edu.au

http://scholar.google.com/scholar?hl=en&q=location+based+clustering+spatial+data+&btnG=Search&as sdt=0%2C47&as ylo=&as yhi=2003&as vis=0[8/19/2011 5:52:52 PM]

Cited by 116 - Related acticles - Bt. Direct - Alt 13 vecsions

### An introduction to multisensor data fusion

DL Hall... - Proceedings of the IEEE, 1997 - ieeexplore.ieee.org

... combined into a single concate- nated feature vector which is input to pattern recognition approaches **based** on neural networks, **clustering** algorithms, or ... of sensor information, after each sensor has made a preliminary deter- mination of an entity's **location**, attributes, and ...

Cited by 943 - Balated articles - Bit Litrect - Alt 9 varsions.

# [PDF] A spatial scan statistic

M Kulldorff - Communications in statistics: theory and methods, 1997 - satiscan.org ... M = sup , ,~T7 S . ç У n(Z) > \\*{G}-v{Z}> ■ r Ч\*>,P>Я}\Ш} m';;—ττ^π = inl —r / rr i—\— A similar argument holds for the Bernoulli case, based on equation ... The location of county seats were used as the geographical coordinates. ... Spatial clustering for inhomogeneous populations ... Catad by 1892 - Balatad addition - St. Direct - All 8 transcens

Distance and risk measures for the analysis of spatial data: a study of childhood cancers

S Selvin, J Schulman... - Social Science & Medicine, 1992 - Elsevier

... of no association can be stated two ways: (a) all individuals are at equal risk regardless of their **location** on a ... cases occurring far from a point source of exposure diminish the power of an analysis **based** on distance ... geopolitical or transformed map) to detect **spatial clustering**. ...

Cited by 88 - Belated anicles - All 15 versions

#### Local spatial statistics; an overview

A Getis... - Spatial analysis: Modelling in a GIS..., 1996 - books.google.com
... and t/,, are elements of matrices W and Y, and the focus is on the value of Tat location i. The ... The first is based on covariance, the next three on differences, and the G, statistics evaluate association by measuring ... We have identified the nature of the clustering in the vicinity of xl3t ...
Cated by 238 - Related articles. - All 2 versions.

#### Linear flaw detection in woven textiles using model-based clustering

JG Campbell, C Fraley, F Murtagh... - Pattern Recognition Letters, 1997 - Elsevier
... Textiles; Image processing; Computer vision; Inspection; Linear flaw detection; Model based
clustering; Bayes factor ... significant scope for introducing intelligence to these phases: if location
of automatically ... but which, due to their occurrence in an extended spatial pattern, are ...
Cited by ZZ - Related acticles - All JZ registers

#### A unified framework for model-based clustering

S Zhong... - The Journal of Machine Learning Research, 2003 - portal acm.org
... The basic idea is that each **data** object is stochastically (and entirely, not fractionally) assigned to one of the K ... batch version of the SOM and Neural-Gas algorithms in the con- text of model-**based clustering** and show ... Let the map **location** of cluster y be φy and Kα(φy,φy ) = exp ... Cited by 168 - Related articles - Ri. Direct - All 23 versions.

#### Spatial and feature space clustering: Applications in image analysis

J Matas... - Computer Analysis of Images and Patterns, 1995 - Springer
... For comparison with the segmentation approach **based** on edge detection the image was first filtered with ... At some pixel **location** the depth measurements are not available ... We have proposed a novel approach to image segmentation, called feature and **spatial** domain **clustering**. ...
Cated by 46 - Related articles - All 17 versions

# Use of spatial statistics and monitoring data to identify clustering of bovine tuberculosis in Argentina

AM Perez, MP Ward, P Torres... - Preventive Veterinary Medicine, 2002 - Elsevier ... objectively determine if TB was clustered in Argentine cattle herds, and to identify the **location** of the most-likely clusters of bovine TB in Argentina **based** on 2 ... Study results support previously suspected **clustering** of TB in dairying districts of Argentina (PAHO/WHO, 1982) and ... Cited by 31 - Balated atticles - Att.5 yearsions

# Segmented trajectory based indexing and retrieval of video data

FI Bashir, AA Khokhar... - Image Processing, 2003. ..., 2003 - ieeexplore.ieee.org ... follows in an effort to reduce the size (number of items) of data set. ... to lie in the 0 to I range to make the representation invariant to object's spatial location. 2.2.2. Polynomial Coeffrcients based Clustering Instead of computing PCs from subtrajectories, clustering is first performed ... Cited by 56 - Helated articles. - Ali.13 remains.

### Towards geo-spatial hypermedia: Concepts and prototype implementation

K Grenbæk, PP Vestergaard... - Proceedings of the ..., 2002 - portal.acm.org ... 7.2 The role of spatial parsing in geo-spatial hypermedia The Topos system includes a spatial parser [21] based on 3D proximity analysis. ... Here the placement of objects is typically tied to a specific location, and abstract clustering and automatic arrangement may potentially ... Clied by 50 - Related anides - 48.33 yearsions

# Multi-actor-based land use modelling: spatial planning using agents

A Ligtenberg, AK Bregt... - Landscape and Urban ..., 2001 - Elsevier

... after the claim is fulfilled or a situation is reached in which no location exists where ... The

(POFILirom bhase)

IPDFI from satscan.org

IPDEL from washington.edu.

IPOFI from osuledu

repet from psuledu

(PDF) from psuledu

(PDF) from psu.edu

implementation of SWARM is **based** upon the definition of so-called Modelswarms and ... The "Municipality of Nijmegen" for example prefers a **clustering** of new urbanisation close to existing ... Gled by 86 - Related atiloles - Alt 8 yearsigns

#### Using the fractal dimension to cluster datasets

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